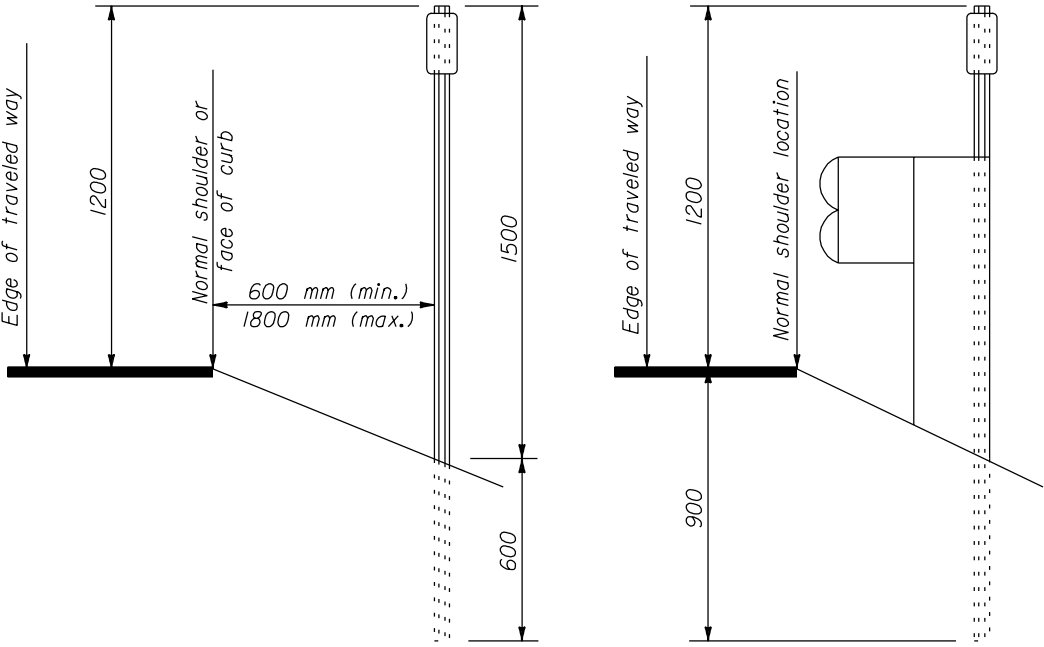


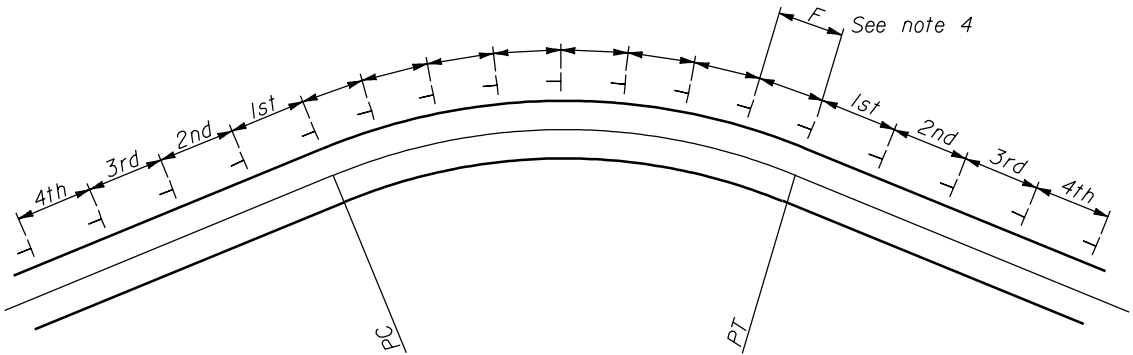
DESIGN A
(WHITE)

DESIGN B
(YELLOW)

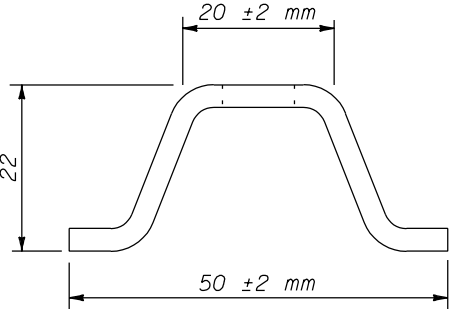
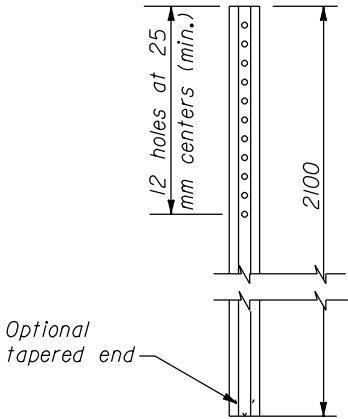


TYPICAL INSTALLATION

TYPICAL INSTALLATION WITH
BEAM TYPE GUARD RAIL



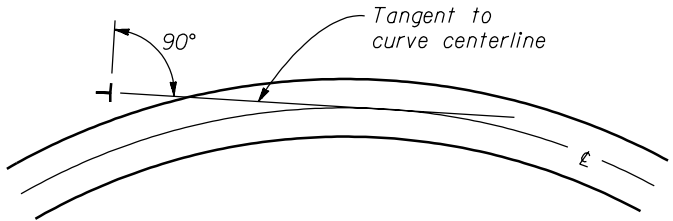
HORIZONTAL CURVE
(SEE TABLE FOR SPACING VALUES)



DELINEATOR POST DETAILS

RIGID STEEL OR ALUMINUM
(All holes 9.5 mm diameter)

| HORIZONTAL CURVES | | | | | | |
|-------------------|---------------------------------------|------------------------------|-----------|-----------|-----------|--|
| RADIUS OF CURVE | SPACING ON OUTSIDE OF CURVE IN METERS | | | | | |
| | ON CURVE | IN ADVANCE OF & BEYOND CURVE | | | | |
| | | 1st SPACE | 2nd SPACE | 3rd SPACE | 4th SPACE | |
| >3000 | 90 | 120 | 120 | 120 | 120 | |
| 2000-3000 | 90 | 120 | 120 | 120 | 120 | |
| 900-2000 | 69 | 120 | 120 | 120 | 120 | |
| 600-900 | 49 | 100 | 120 | 120 | 120 | |
| 450-600 | 40 | 40 | 80 | 120 | 120 | |
| 290-450 | 34 | 34 | 65 | 120 | 120 | |
| 220-290 | 27 | 27 | 55 | 120 | 120 | |
| 140-220 | 23 | 23 | 45 | 90 | 120 | |
| 90-140 | 18 | 18 | 35 | 90 | 120 | |
| <90 | 14 | 14 | 8 | 85 | 120 | |



SIGN INSTALLATION ANGLE

NOTE:

- Dimensions not labeled are in millimeters.
- When the contract does not provide for the construction of the ultimate pavement, allow for the thickness of base and pavement to be placed later when establishing the elevation or the traffic delineators.
- Mount delineators on metal posts with M5 cadmium plated bolt(s). Drill or punch a minimum of twelve 9.5 mm diameter holes on 25 mm centers from the top of the post. 9.5 mm square holes may be used with large-headed bolt or an appropriate washer. Jam threads after tightening the nut to prevent removal.
- Place delineators at a constant clearance from the edge of pavement except where guardrail or other obstructions interfere. Line up delineators with the inside edge of obstruction. Install delineators located behind beam guard rail so that the delineator post is adjacent to the trailing edge of the nearest guard rail post. (See typical installation with beam type guard rail).
- If "F" distance is greater than 6 meters add one regular delineator in at spacing on curve distance. Vary the post spacing up to 1/8 of the spacing shown to clear driveways, cross roads, intersections or ramps. Eliminate the post if the variation is exceeded.
- All delineator reflectors have 20 mm corner radii.
- Manufacture posts from flanged U-channel sections of steel meeting the requirements of ASTM A 36 and weighing not less than 1.86 kilograms per meter or aluminum meeting the requirements of ASTM B 221, Alloy 6061-T6, with a minimum thickness of 3.2 mm. After fabrication, galvanize steel posts in accordance with ASTM A 123.
- Place the Design B delineators at the entrance of road approaches and the Design A delineators on the outside radius of the main roadway curves.
- When a route has a current ADT of 900 or greater, continuously delineate the roadway along the shoulder by means of post mounted reflectors. Spacing on tangent sections is 120 meters.
- Finish hardware in the metric sizes shown. Equivalent imperial sizes may be used when metric sizes are not available.

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

METRIC DETAIL

TRAFFIC DELINEATORS
MONTANA PROJECTS

DETAIL APPROVED FOR USE 3/1996
REVISED: 3/2000

DETAIL
WM633-2